

BOSS BX-8/16

SERVICE NOTES *First Edition*

SPECIFICATIONS

Common for the BX-8 and BX-16

Input Level

Rated: -50dBm to -10dBm

Input Impedance

$1.5\text{k}\Omega$ to $100\text{k}\Omega$

Output Level (Standard Phone Jack)

Rated: $+4\text{dBm}/-10\text{dBm}$
Maximum: $+21\text{dBm}$

Output Level (Pin Jack)

Rated: -10dBm
Maximum: $+7\text{dBm}$

Output Load Impedance

More than $10\text{k}\Omega$

Effect Send

Output Level (Rated): -20dBm
Output Load Impedance: more than $10\text{k}\Omega$

Effect Return

Input Level (Rated): -20dBm
Input Impedance: $47\text{k}\Omega$

Equalizer

Treble: $\pm 10\text{dBm}/10\text{kHz}$
Bass: $\pm 10\text{dBm}/100\text{Hz}$

Headphones

$50\text{mW}/30\Omega$

Equivalent Input Noise

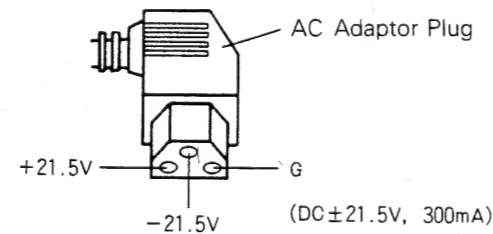
-115dBm (IHF-A)

Frequency Response (at the minimum gain)

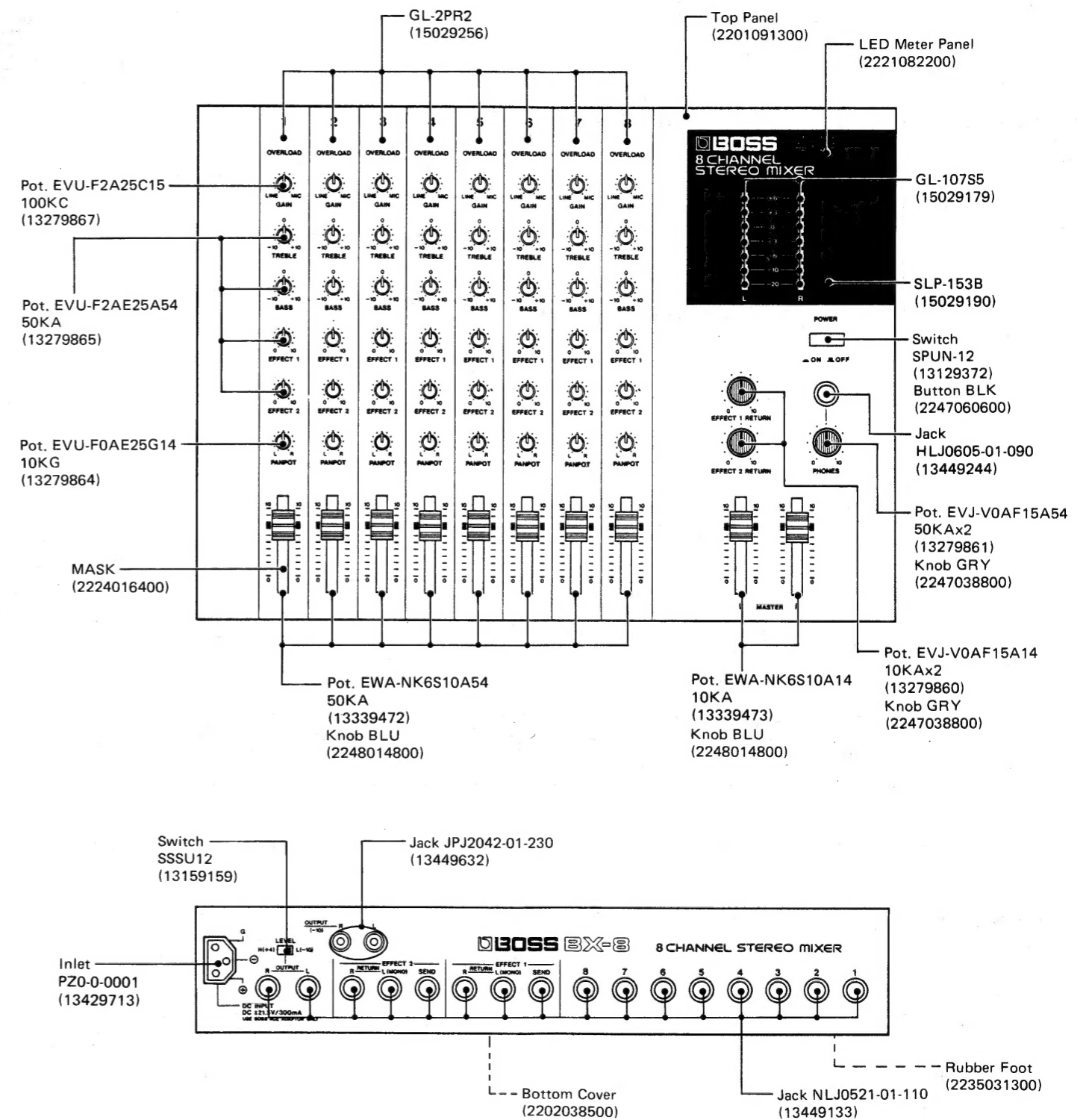
20Hz to 40kHz ($+0$ to -3dB)
@ $0\text{dBm} = 0.775\text{V}$

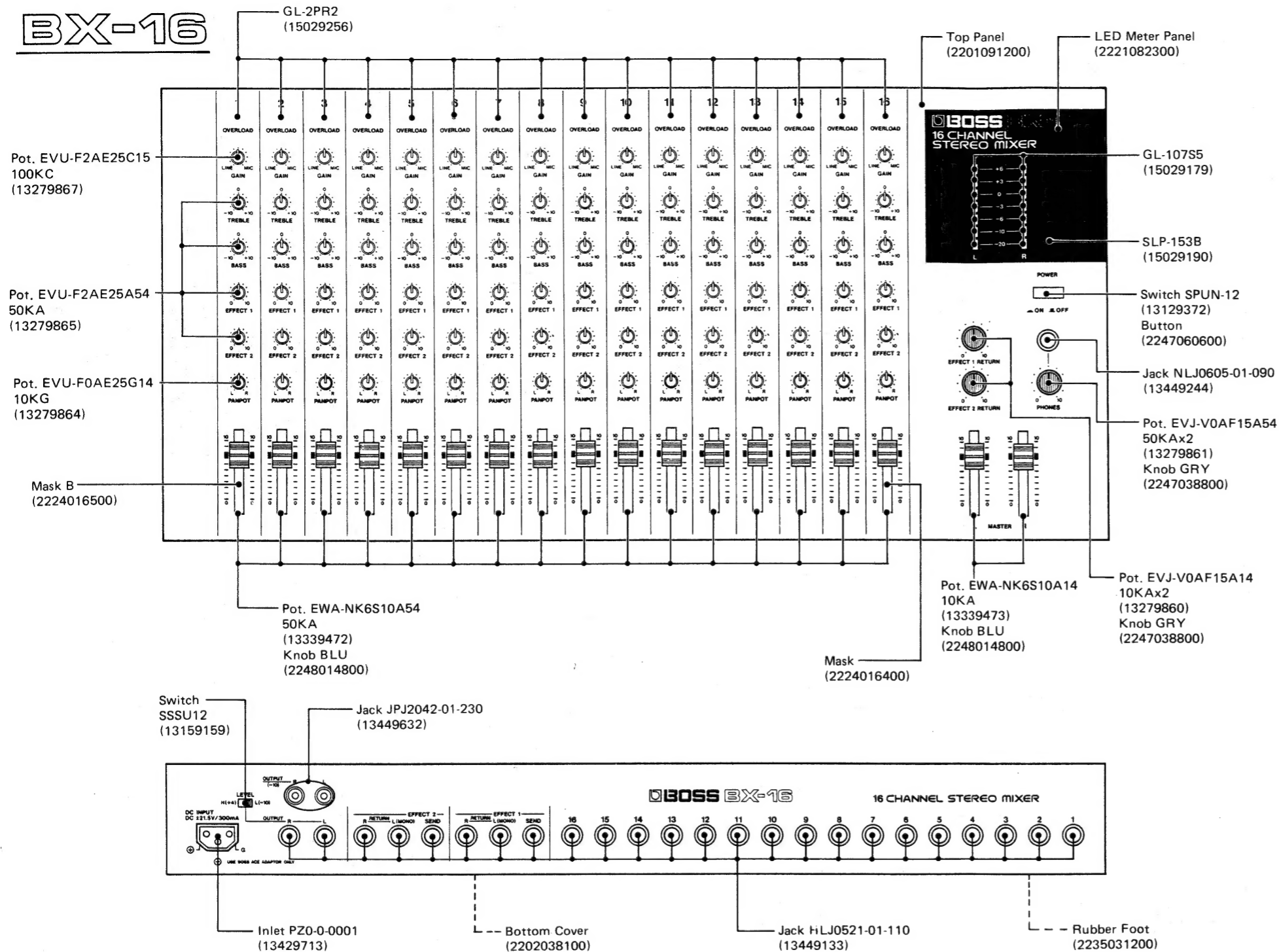
Accessory

AC Adaptor (BOSS ACE-100, 120, 220, 240A or 240E)



BX-8





PARTS LIST

EXCLUSIVE PARTS

BX-8 CASING

2201091300	Top Panel
2202038500	Bottom Cover
2221082200	LED Meter Panel
2235031300	Rubber Foot

MISCELLANEOUS

2220015400	Jack Holder
------------	-------------

BX-16 CASING

2201091200	Top Panel
2202038100	Bottom Cover
2221082300	LED Meter Panel
2235031200	Rubber Foot

PCB ASSY

7116460000	CH Board	(pcb 2292055100)
Replacement CH Board includes CH JK Board		
補修用 CH BOARDはCH JK BOARDを含みます。		
	CH JK Board	(pcb 2292055100)

MISCELLANEOUS

2220014000	Jack Holder A
2224016500	Mask B

COMMON PARTS

KNOB

2247038800	GRY	Rotary
2248014800	BLU	Slide

BUTTON

2247060600	BLK	POWER
------------	-----	-------

JACK

13449244	HLJ0605-01-090	PHONES
13449133	HLJ0521-01-110	
13449632	JPJ2042-01-230	Pin

PCB ASSY

7116453000	MT Board	(pcb 2292055200)
Replacement MT Board includes PIN JK Board.		
補修用 MT BOARDはPIN JK BOARDを含みます。		
	PIN JK Board	(pcb 2292055200)

7116465100	PS Board	(pcb 2292055300)
------------	----------	------------------

Replacement PS Board includes Phone JK Board, SW Board and Inlet Board.		
補修用 PS BOARDは下記の基板を含みます。		
	Phone JK Board	(pcb 2292055300)
	SW Board	(pcb 2292055300)
	Inlet Board	(pcb 2292055300)

IC

15189136	M5218L	OP amp
15189150	M5220L	OP amp
15219116	IR2E02	LED driver

TRANSISTOR

15119814	2SB-1015-0	
15129827	2SD-1406-0	
15129136	2SC2878A	
15199144	2SA1048GR-TPE4	
or 15119105	2SA733P	
15129179	2SC2458GR-TPE4	
or 15129108	2SC945P	

DIODE

15029256	GL-2PR2	LED	OVERLOAD
15029179	GL-107S5	LED (7 dot)	LEVEL
15029190	SLP-153B	LED	POWER
15019125	1SS-133		
15019535	RD8.2EB-3	Zener	
15019560	RD16EB-2	Zener	

RESISTOR

13829252	68Ω	2W	Metal oxide
12559803	33Ω		Fuse resistor

POTENTIOMETER

13279867	EVU-F2AE25C15	100KC	GAIN
13279865	EVU-F2AE25A54	50KA	TREBLE, BASS, SEND
13279864	EVU-F0AE25G14	10KG	PANPOT
13279860	EVJ-V0AF15A14	10KAx2	RETURN
13279861	EVJ-V0AF15A54	50KAx2	PHONES
13339472	EWA-NK6S10A54	50KA	CH FADER
13339473	EWA-NK6S10A14	10KA	MASTER FADER
13299206	EVND4AA00B24	20KB	Trimmer
or 13299155	H1051A015	22KB	Trimmer

SWITCH

13159159	SSSU12	Slide	LEVEL
13129372	SPUN-12	Push	POWER

CONNECTOR

2341060800	Wiring Assy #608	6P 2.5mm pitch	1 = 150
2341060900	Wiring Assy #609	7P 2.5mm pitch	1 = 150
2341061000	Wiring Assy #610	8P 2.5mm pitch	1 = 250
2341061100	Wiring Assy #611	9P 2.5mm pitch	1 = 150
13439335	IL-S-6P-S2T2-EF	6P Connector	
13439296	IL-S-7P-S2T2-EF	7P Connector	
13439297	IL-S-8P-S2T2-EF	8P Connector	
13439345	IL-S-9P-S2T2-EF	9P Connector	
2347024700	Flat Cable	7P L = 40	
2349074000	Shielded Cord Assy #740	L = 150	

AC ADAPTOR

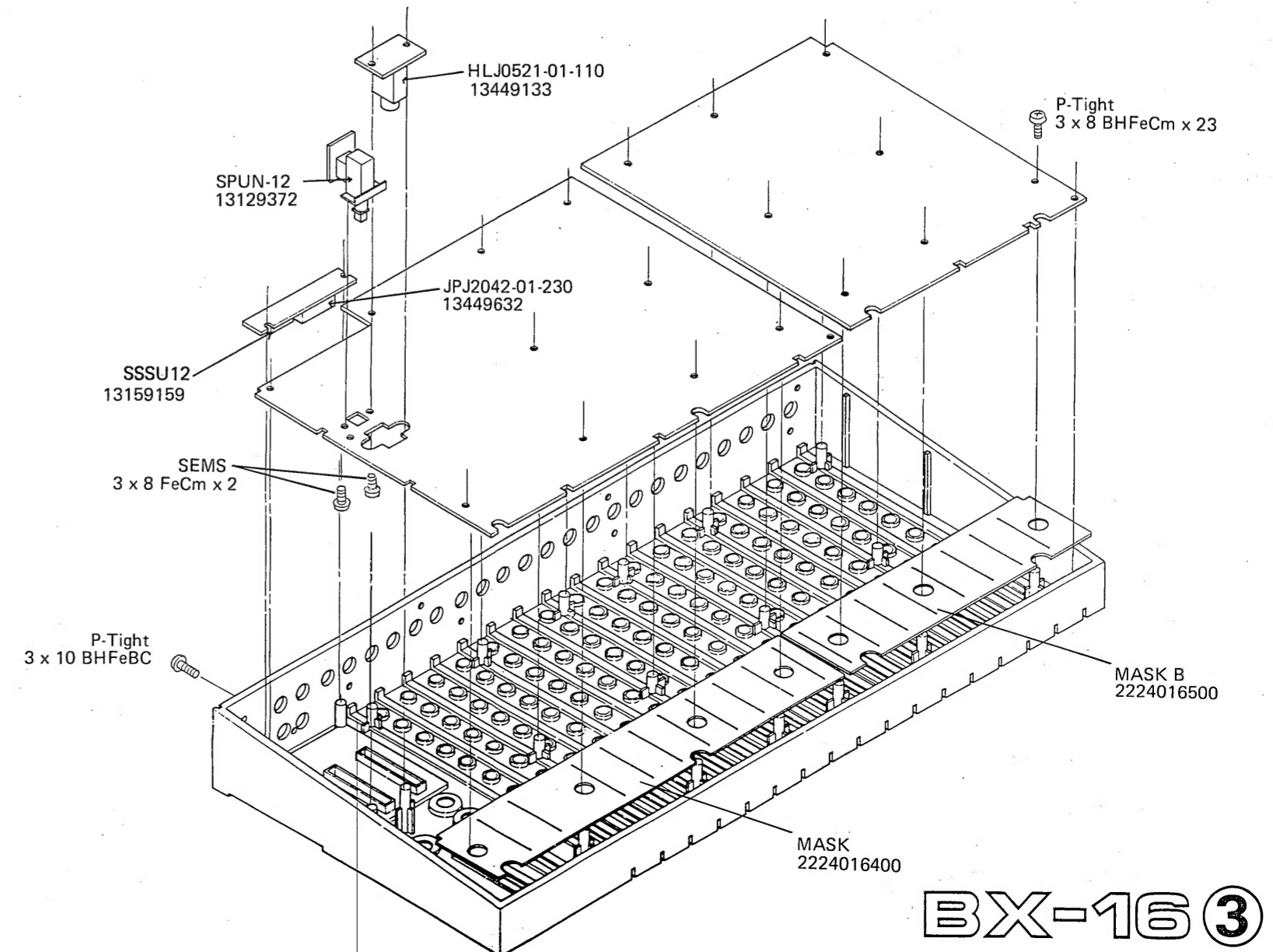
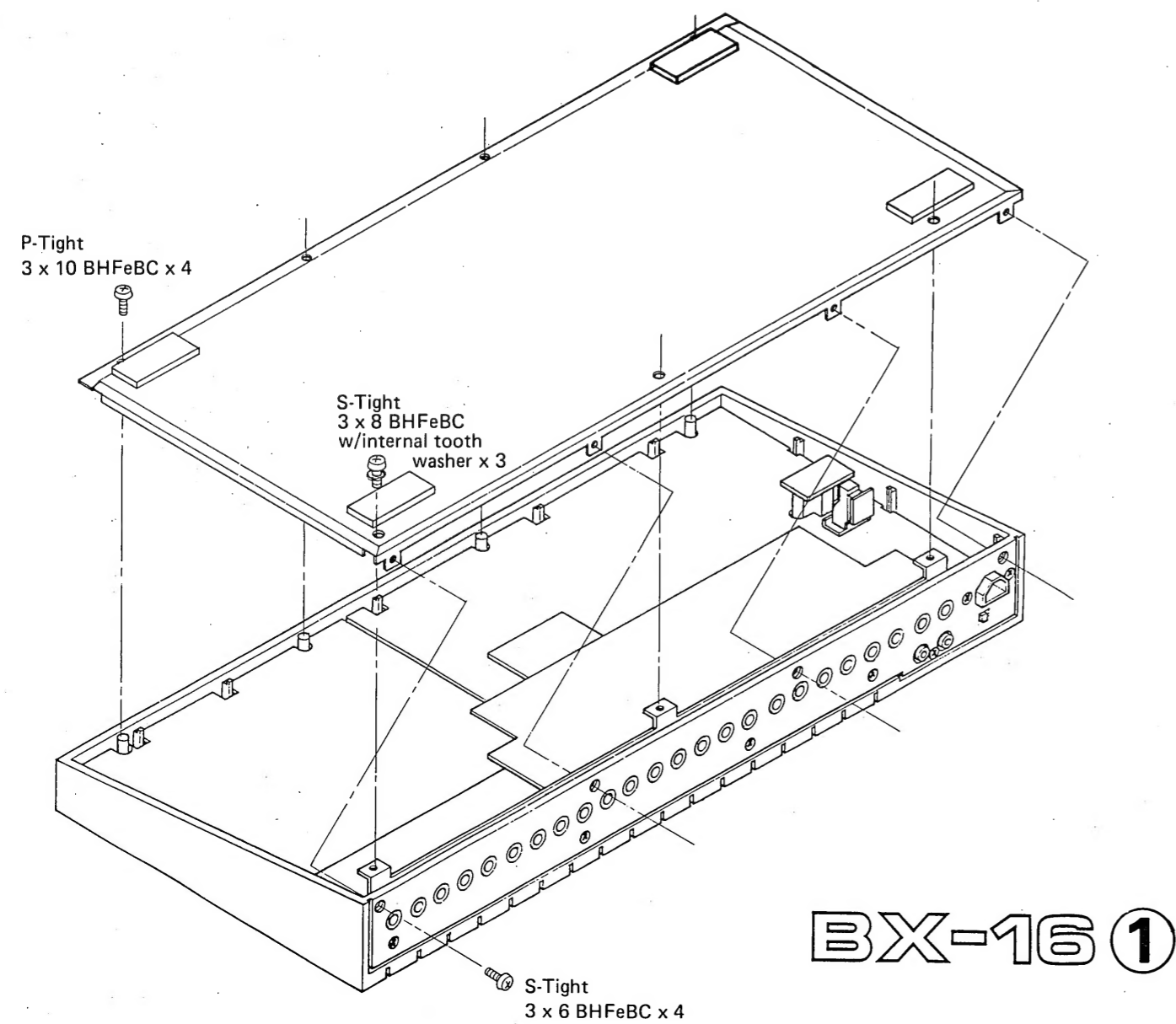
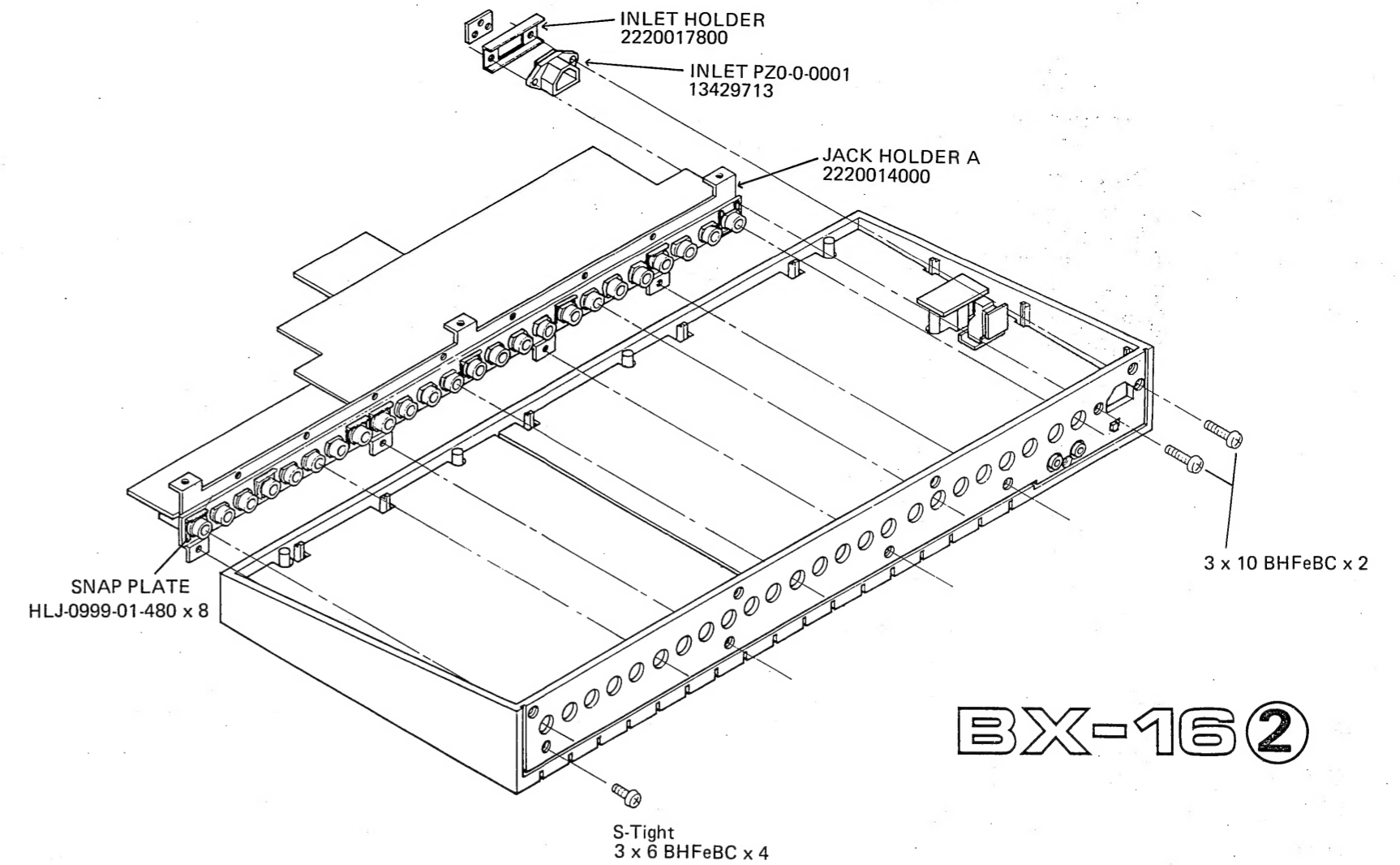
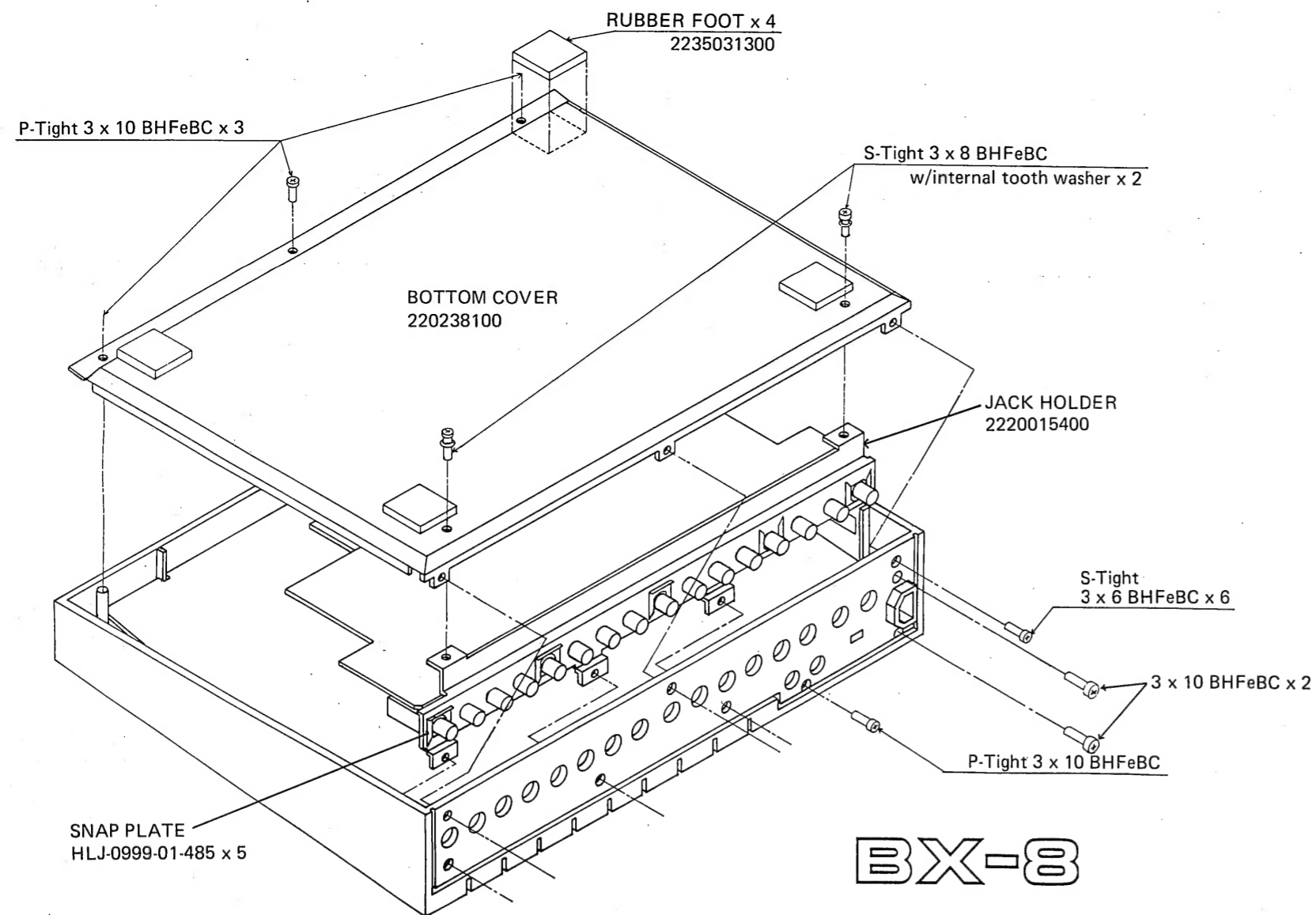
12449578	ACE-100	100V
12449579	ACE-120	117V
12449580	ACE-220	220V
12449581	ACE-240E	240E UK
12449582	ACE-240A	240A Australia

MISCELLANEOUS

13429713	Inlet PZ0-0-0001	3P
2220017800	Inlet Holder	
2224016400	Mask	
2246012501	Heat Sink	
-----	Snap Plate	HLJ-0999-01-480
		PS Board

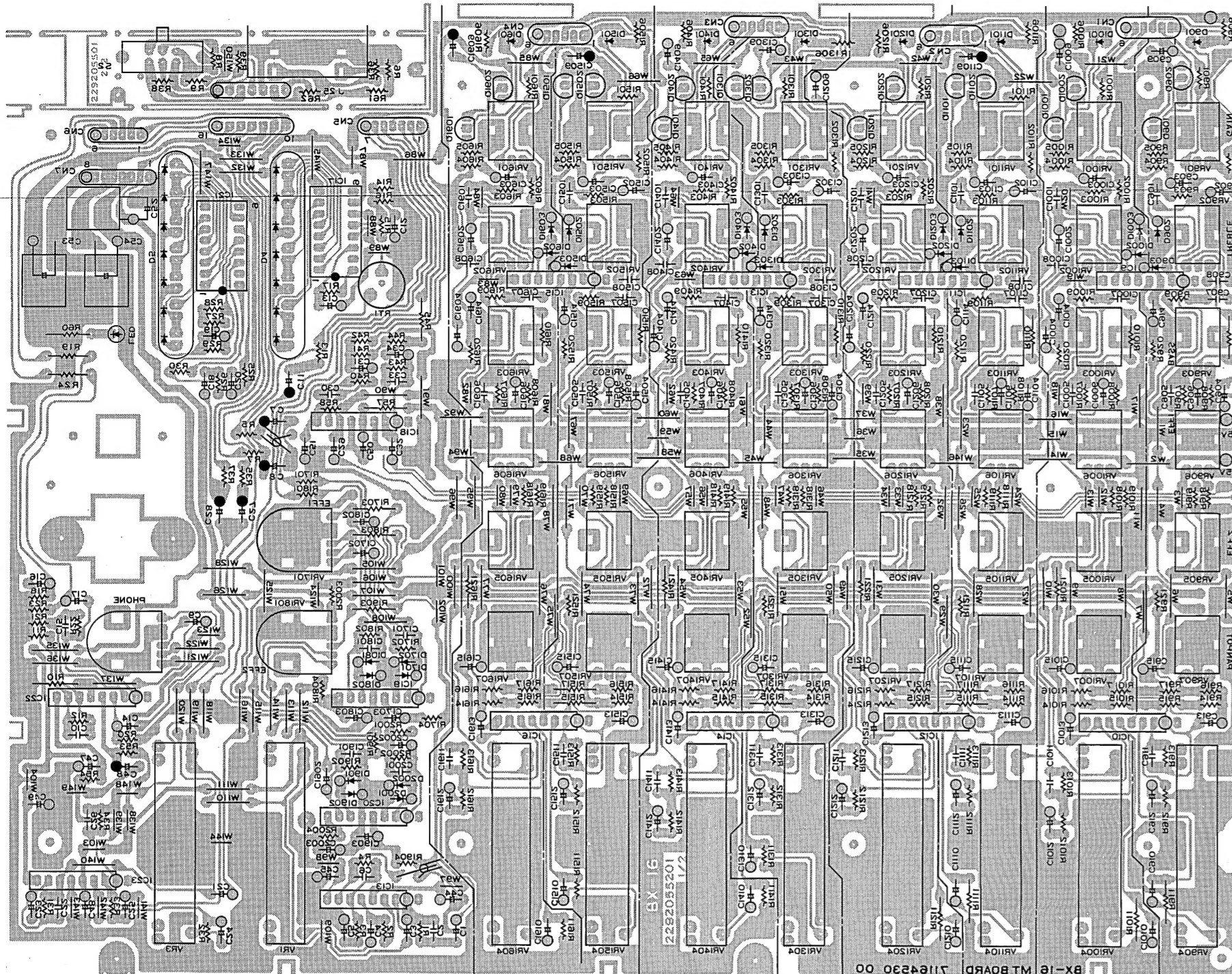
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

EXPLODED VIEW



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

↓ PIN JK BOARD

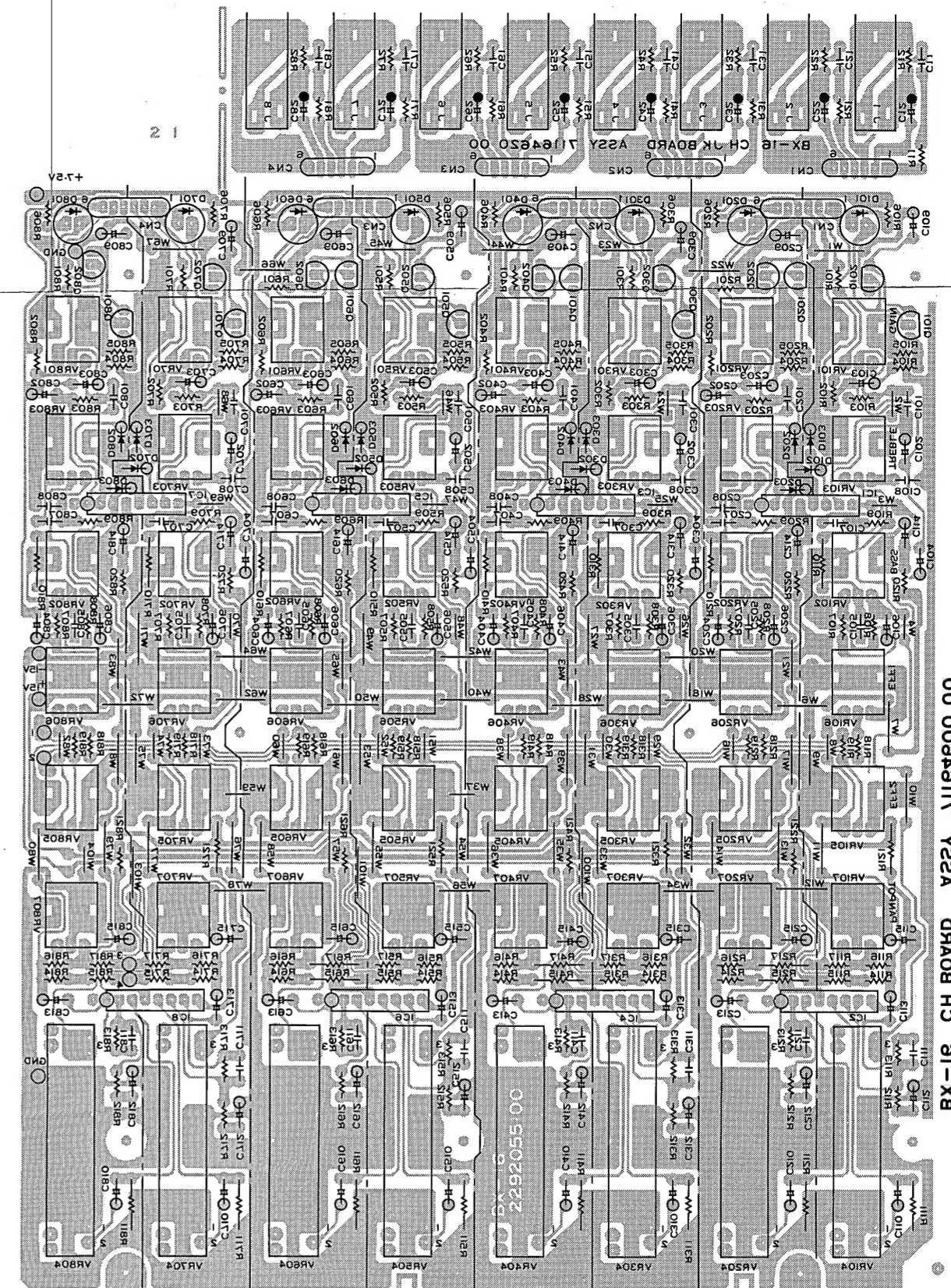


View from foil side.



MT BOARD
Assy 7116453000
(pcb 2292055200)
Replacement MT Board includes Pin JK Board.
補修用 MT BOARD は
PIN JK BOARD を含みます。

CH JK BOARD
Only for BX-16



View from foil side.



CH BOARD Only for BX-16
Assy 7116460000
(pcb 2292055100)
Replacement CH Board includes CH JK Board.
補修用 CH BOARD は
CH JK BOARD を含みます。

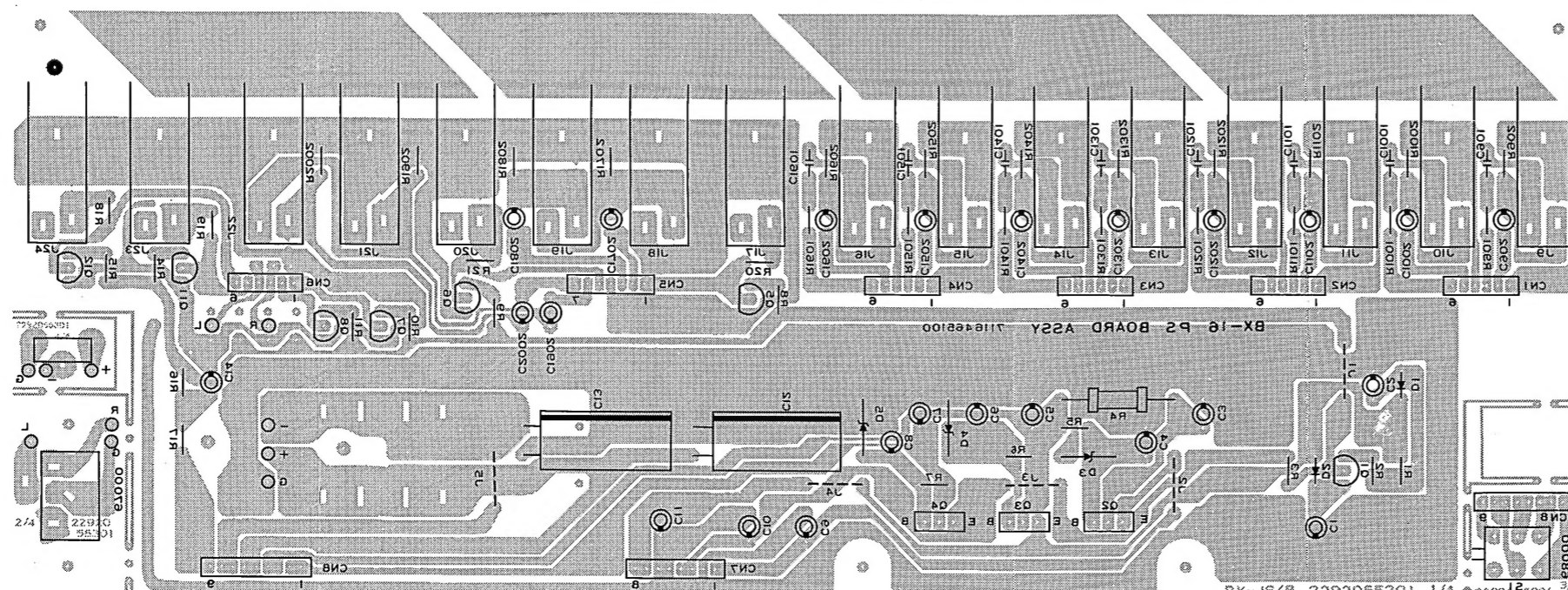
PS BOARD
Assy 7116465100
(pcb 2292055300)
Replacement PS Board includes Phone JK Board,
SW BOARD and Inlet Board.
補修用 PS BOARD は
以下の基板を含みます。
・PHONE JK BOARD
・SW BOARD
・INLET BOARD

← SW BOARD

INLET BOARD



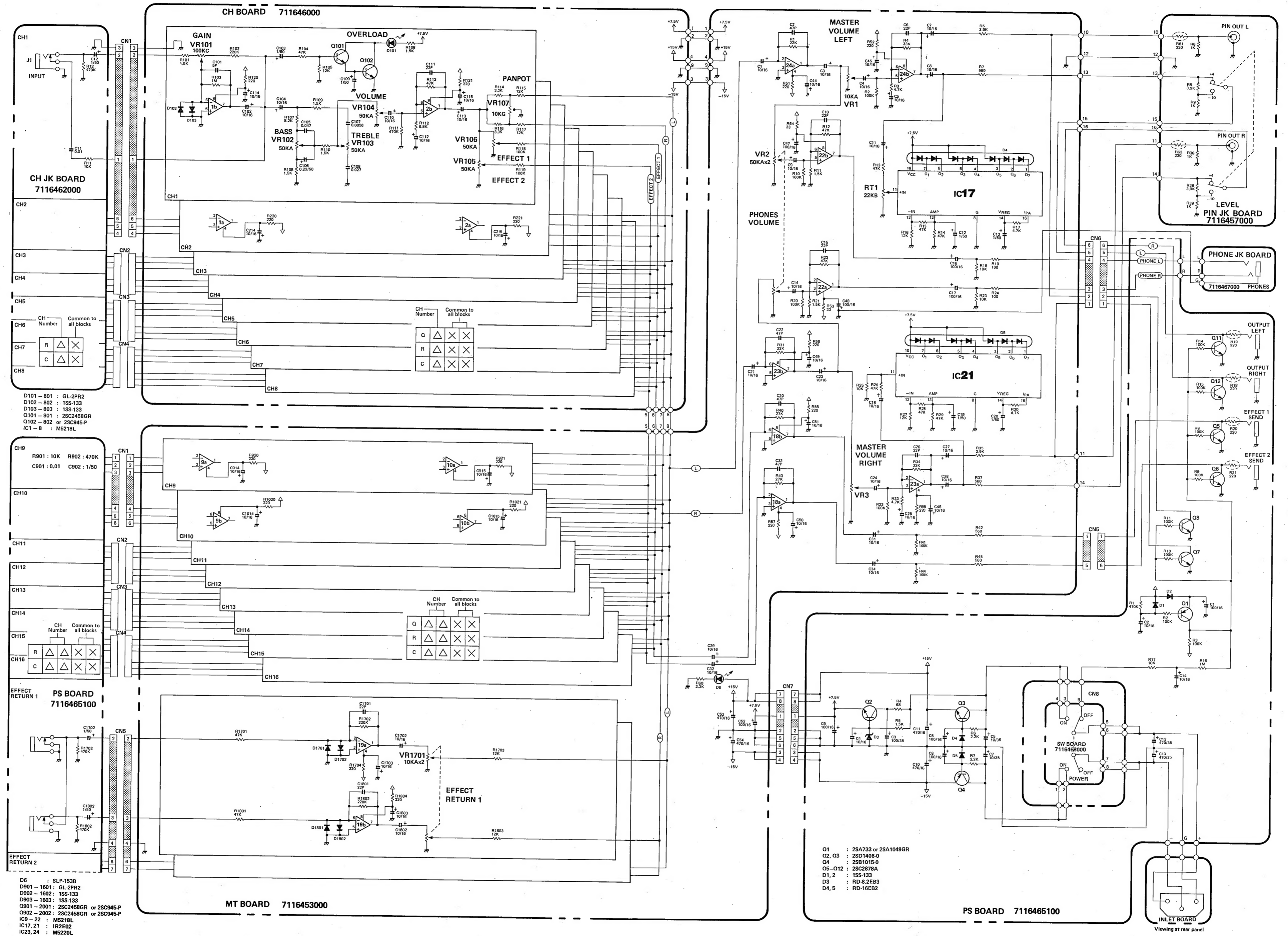
PHONE JK BOARD



View from foil side.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

CIRCUIT DIAGRAM



ADJUSTMENT
LEVEL INDICATOR CALIBRATION

EFFECT 1 RETURN : 10
MASTER FADER L/R : 10
EFFECT 1 RETURN Jack : -30dBm, 1kHz, sine
Adjust RT-1 so that Left LEVEL METER keeps pace
with RIGHT LED as EFFECT RETURN 1 knob is set at
different positions.

調整仕様
レベル・インジケータ校正
EFFECT 1 RETURN :10
MASTER FADER L/R :10
EFFECT 1 RETURN Jack:-30dBm, 1kHz, サイン波
EFFECT RETURNを動かした時、LEDレベル・メーターのLの
点灯がRと同じレベル表示になる様に、半固定RT-1で調整する。

CHANGE INFORMATION
Add resistors

EFF : BX-8 903600-UP
: BX-16 904000-UP
Add 6 220Ω resistors

変更案内
抵抗追加
PS BOARDのOUTPUT L/R (R18, 19) 220Ω及びEFFECT
SEND 1/2 (R20, 21) 220Ωを追加。PIN JK BOARDのPIN
OUT L/R (R61, 62) 220Ω を追加。
実施製番:BX-8 903600
BX-16 904000

PS BOARD				PIN JK BOARD	
OUTPUT		EFFECT SEND		PIN OUT	
L	R	1	2	L	R
R19	R18	R20	R21	R61	R62

Reason : prevent electrostatic accumulation.
理由 : 静電保護のため
Change resistors
EFF : BX-8 903600-UP
: BX-16 904000-UP
Change R53 and R54 (330Ω) of MT board to fusing
resistor (Part No. 12559803).
Reason : Prevent burning problem due to shorting
electro cap (C47 and C48).
MT BOARDのR53, 54をヒューズ抵抗33Ω (PART No.
12559803) に変更
実施製番:BX-8 903600
BX-16 904000
理由 : ケミコン・ショート時の抵抗焼損防止

Change PHONES ground
CAUTION : This modification is mandatory . . .
Must be conducted on all products as retrofit.
EFF : BX-8 881800-UP
: BX-16 881500-UP
Change soldering point of phones return path.
Reason : Eliminate crosstalk.
PHONESグラントライン・ワイヤリング取り付け箇所変更
修理等の際は製造番号を確認し、変更が実施されているかを調べ
て下さい。
実施製番:BX-8 881800
BX-16 881500
理由 : クロストーク改善の為
変更箇所: 下図参照

